

Date 11/23/04  
 Driller Air Rotary  
 Drilling Method ARCH  
 Sampler Continuous Core  
 Hammer Weight NA Drop NA  
 Logged by Datum  
 Surface Elevation 702.66 Hole Dia. 8.5 in.  
 Northing 507186.936 Easting 1237303.384

**Well Construction Details**

Top of PVC Casing  
 Elev. **704.93 ft.**

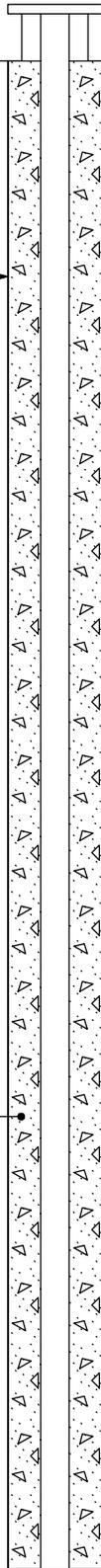
GROUND SURFACE

6.5" DIA.  
 BOREHOLE: 0 to  
 76 ft.

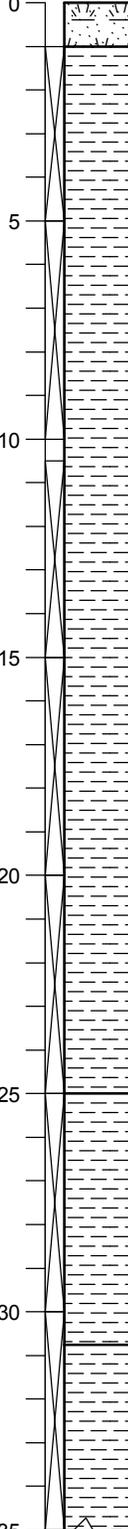
BENTONITE-  
 CEMENT SEAL: 0  
 to 49 ft.

Recovery  
 (inches)  
 PID Reading  
 (ppm)

Depth (ft.)  
 Sample



Recovery (inches)	PID Reading (ppm)
0	0
48	0
60	0
60	0
54	0
60	0
60	0
60	0
60	0
60	0
60	0



Topsoil

Light Olive Brown Weathered Mudstone (2.5Y 5/3), Moderately consolidated, intensely fractured, massive, low hardness, weak, deeply weathered, iron oxide and manganese and gypsum coatings throughout

@ 10.7, 10.8, and 11.1 ft.: Fractures with gypsum in-filling

@ 12 and 13 ft.: Subhorizontal fractures; subangular fracture with iron oxide at 13.1 ft.

@ 14.1 ft.: Mostly subangular fractures with iron oxide, highly oxidized through 25 ft.; vertical fracture from 14.5 to 15.8 ft.

@ 19.6 ft.: Gypsum

@ 25 ft.: Gray bands at 25 - 25.2 ft., 25.8 - 26.7 ft., 27.2 - 28 ft., 28.3 - 28.5 ft., and 28.9 - 29.5 ft.  
 Weathered/Unweathered Transition Zone from 25 - 30.7 ft.

Dark Gray Unweathered Mudstone (5Y 4/1), Moderately consolidated, occasionally fractured, massive, low hardness, weak, moderately weathered; Olive Brown subhorizontal fracture/oxide zone with iron oxide at 32.7, 34.1 and 34.8 ft.

BORING\_WELL2\_CASMALIA.RIFS.GPJ\_GEOL.GDT 12/14/10

**Well Construction Details and Log of Boring RGPZ-10B-2**

PLATE

Final Remedial Investigation Report  
 Casmalia Resources Superfund Site  
 Casmalia, California

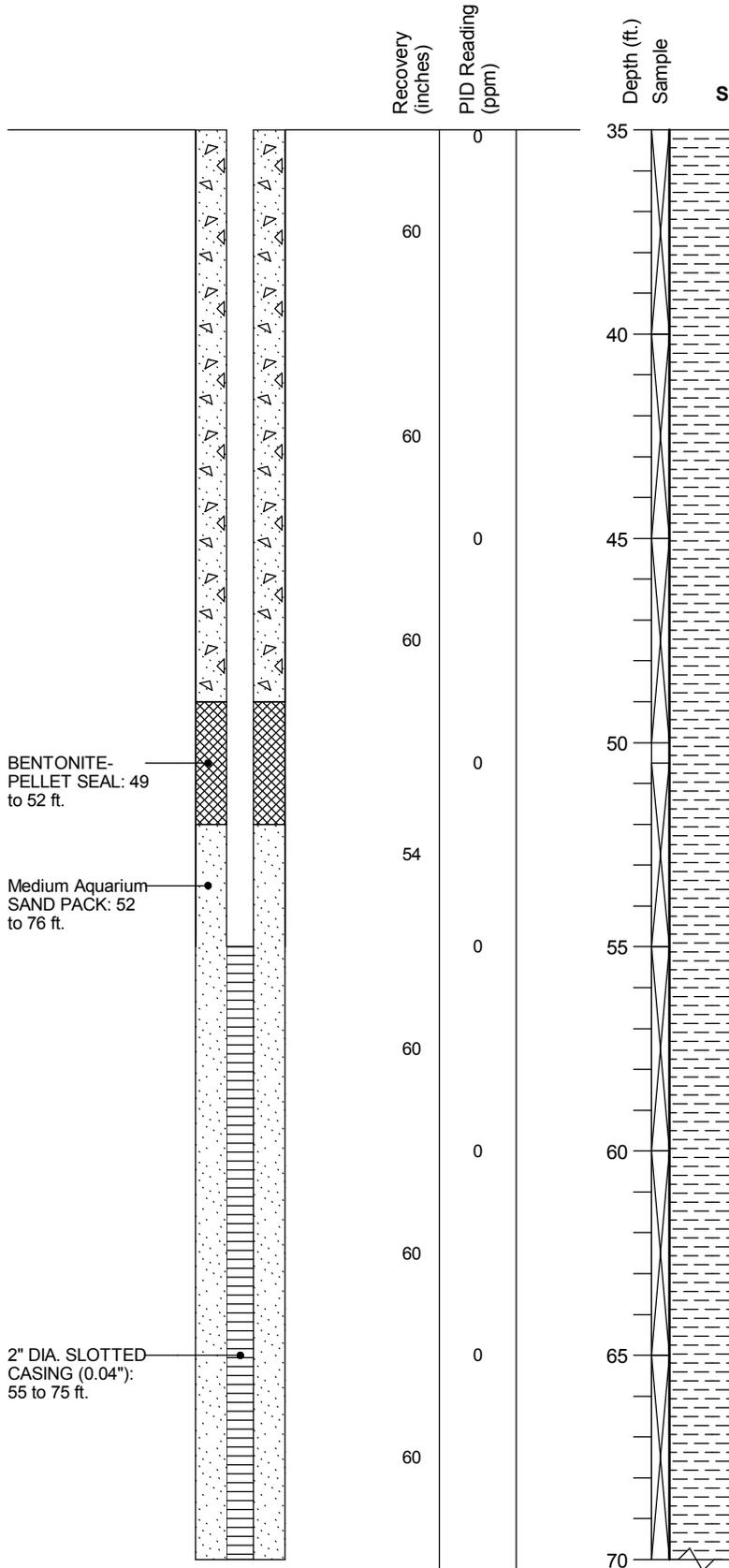
**E9-52**

DRAWN	JOB NUMBER	CHECKED	CHK'D DATE	APPROVED	APPR'V'D DATE
CN	4088097619	WJF	1/11	WBC	1/11

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BORING\_WELL2\_CASMLIARIFS.GPJ\_GEOL.GDT 12/14/10



@ 41 ft.: White inclusions interbedded between 41 and 41.8 ft.

@ 44 ft.: White inclusions interbedded between 44 and 44.5 ft.

@ 47.1 ft.: High angle fracture with minor iron oxide

From 55 - 58 ft.: Friable, platy

From 58 - 60 ft.: Massive

From 60 - 64 ft.: Slightly friable, platy

@ 65.5 ft.: White inclusion

@ 68.5 ft.: Massive

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Drilling Method ARCH

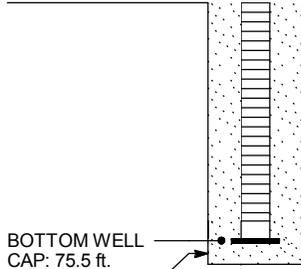
Sampler Continuous Core

Hammer Weight NA Drop NA

Logged by \_\_\_\_\_ Datum \_\_\_\_\_

Surface Elevation 702.66 Hole Dia. 8.5 in.

Northing 507186.936 Easting 1237303.384



BOTTOM WELL CAP: 75.5 ft.  
HOLE CLEANED OUT to 76 ft.

Recovery (inches)  
PID Reading (ppm)

Depth (ft.)  
Sample

70  
75



@ 70.5 - 71.5 ft.: Slightly friable

From 71.5 ft.: Tight, massive

Bottom of boring at 76 ft.

BORING\_WELL2\_CASMALIARIFS.GPJ GEOL.GDT 12/14/10

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